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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/024,632	12/19/2001	Steve Sichuan He	38-21(51837)B	8916	
7590 12/19/2003			EXAMINER		
Lawrence M. Lavin, Jr.			BAUM, STUART F		
Patent Departm	nent, E2NA				
Monsanto Com	pany	ART UNIT	PAPER NUMBER		
800 N. Lindbergh Boulevard			1638		
St. Louis, MO 63167			DATE MAILED: 12/19/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)				
Office Action Summary		10/024		HE ET AL.				
		Exami	ner	Art Unit				
		Stuart	F. Baum	1638				
	The MAILING DATE of this communica	tion appears on	the cover sheet with the c	orrespondence ad	Idress			
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
	Responsive to communication(s) filed of	on 19 February	2001.					
· <u> </u>		This action is						
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-34</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)☐ Claim(s) is/are rejected.								
	Claim(s) is/are objected to.							
8) Claim(s) <u>1-34</u> are subject to restriction and/or election requirement.								
Applicati	on Papers							
·	The specification is objected to by the E							
10)[The drawing(s) filed on is/are: a	·						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s)								
	e of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paner Note	:)			
2) Notice	e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449) Pape		5) Notice of Informal Pa					

Application/Control Number: 10/024,632

Art Unit: 1638

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1 and 2, drawn to an isolated nucleic acid encoding a polypeptide having two AP2 DNA binding domains followed in the C-terminal by an amino acid subsequence, classified in class 536, subclass 23.1 for example.

If Applicant elects Group I, Applicant is also to elect one amino acid sequence from the list below:

SEQ ID NO:25;

SEQ ID NO:26;

SEQ ID NO:27;

SEQ ID NO:28;

Page 2

SEQ ID NO:29;

SEQ ID NO:30;

SEQ ID NO:31

- II. Claims 3-6, drawn to an isolated nucleic acid molecule encoding a polypeptide, classified in class 536, subclass 23.6 for example.
- If Applicant elects Group II, Applicant is also to elect one amino acid sequence from the list below:

SEQ ID NO:2;

SEQ ID NO:4;

SEQ ID NO:6;

SEQ ID NO:9;

SEQ ID NO:11;

SEQ ID NO:13

- III. Claims 7-18, and 20-28, drawn to a recombinant DNA molecule comprising a polynucleotide encoding an ANT protein, methods of producing a plant with enhanced or increased organ size, classified in class 800, subclass 290 for example.
- IV. Claim 19, drawn to a method for obtaining a nucleic acid molecule encoding an ANT-like polypeptide, classified in class 435, subclass 6 for example.

Application/Control Number: 10/024,632

Art Unit: 1638

- V. Claims 29-31, drawn to a process of making ethanol from a plant, classified in class 435, subclass 161 for example.
- VI. Claims 32-34, drawn to a process of making animal feed from a plant transformed, classified in class 426, subclass 54 for example.
- 2. Inventions I-III are unrelated to each other because nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another, as are different proteins structurally distinct chemical compounds and unrelated to one another. These sequences are thus deemed to normally constitute **independent and distinct** inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq (see MPEP 803.04 and 2434). This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of a single genus of invention, but constitutes an independent and patentably distinct invention.
- 3. Inventions IV-VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are distinct from each other because the method steps, required substrates and end products are distinct from each other. Examples of divergent method steps requiring divergent substrates are probing a cDNA or genomic library with a hybridization probe of Group IV, methods of making ethanol of Group V and methods of making animal feed of Group VI.

Page 3

Application/Control Number: 10/024,632 Page 4

Art Unit: 1638

4. Inventions I-III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product claimed can be used in a materially different process such as to produce a protein product.

- 5. Inventions I-III and each of V-VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the nucleotide product claimed can be used in a materially different process such as in a hybridization method or in a method to amplify a nucleotide sequence. Furthermore, the plant product of Group III can be utilized in a materially different process such as the production of plants with increased organ size.
- 6. Because these inventions are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification, and the literature and sequence searches required for each of the Groups are not required for another of the Groups, restriction for examination purposes as indicated is proper.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Application/Control Number: 10/024,632

Art Unit: 1638

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37

CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart F. Baum whose telephone number is 703-305-6997. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson can be reached on 703-306-3218. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Stuart F. Baum Ph.D.

December 12, 2003

DAVID T. FOX
PRIMARY EXAMINER

GROUP 180 /

Page 5